

Table of contents and selected
abstracts.

Zhur Obshch Khim, Vol 11, No 7,
1941, pp 567-572.

SLA 61-20373

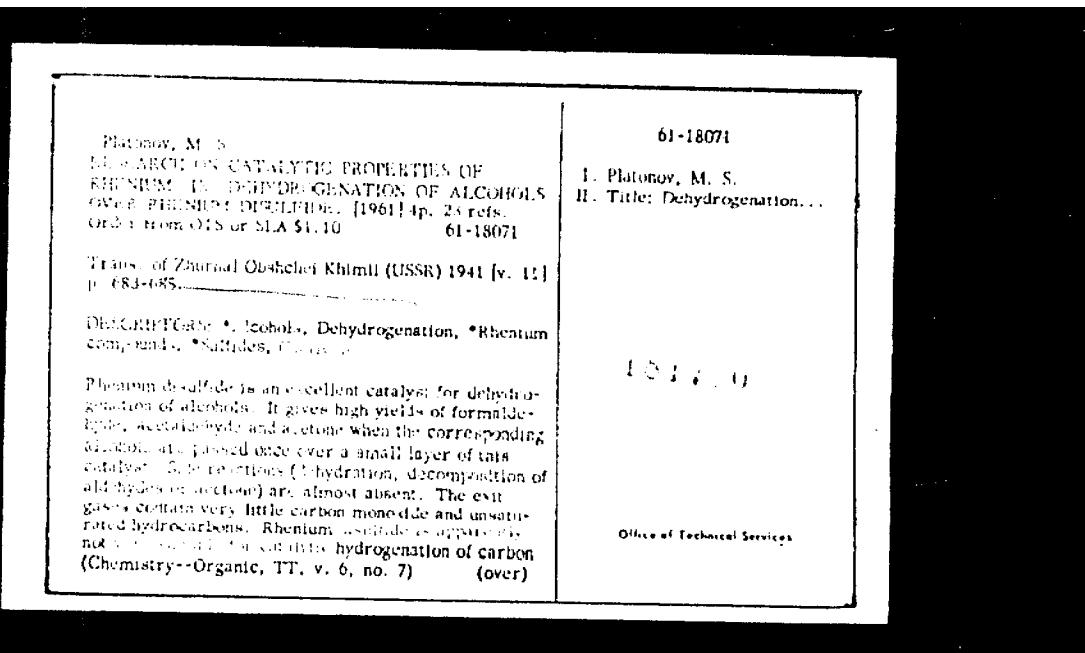
200 / 1 567-572

Table of contents and selected
abstracts.

Zhur Obshch Khim, Vol 11, No 7,
1941, pp 533-536.

SLA 61-20373

202 pp



Zher Dashed Khan

Vol II, pp 707-12 (1941)

The Action of Ethylcarboformate on Diacetyl-
and Acetyl-acetone

L.N. Parmentier and
A.M. Mirzaev

Done by Sci Muo Lib
Sr. Edit - * 50/1884

The Order of Addition of Hydrogen Halides to Halogen-substituted ~~Hydro~~-oxides, by A. A. Petrov, 17 pp.

RUSSIAN, per, Zhur.Obshchei Khimii, Vol XI, No 9,
1941, pp 713-721.

Sci Tr Center RT-2497

USSR
Scientific - Chemistry

28, 272

Nov 55
CTB/DEX

Bryusova, L. Ya. and Ioffe, M. L.
SYNTHESIS OF EUGENOL. [1961] 7p. 12 refs.
Order from OTS or SLA \$1.10 61-18084

Trans. of Zhurnal Obshchey Khimii (USSR) 1941, v. 11,
no. 9, p. 722-728.

DESCRIPTORS: *Eugenol, Synthesis, Boron Compounds,
Fluorides, Acetic acids.

A method of synthesis of eugenol was developed giving up to 38% yields. In isomerization of the allyl ether of guaiacol, the allyl radical was shown to be able to pass into the p-position, even if a free o-position is available, when the ether is acted upon by boron fluoride or its molecular compound with acetic acid. The synthesis consists in isomerization of the allyl ether of guaiacol under the action of either boron fluoride or the molecular compound of boron fluoride with acetic acid. Guaiacol is a by-product of the rearrangement. (In addition to the synthesis, the authors also describe the synthesis of 2,6-dimethyl-4-allylphenol from 2,6-dimethyl-4-allylphenyl boron fluoride and acetic acid.) (Chemistry--Physical), TT, v. 6, no. 8) (over)

61-18084

I. Bryusova, L. Ya.
II. Ioffe, M. L.

185134

Office of Technical Services

JOURNAL OF GENERAL CHEMISTRY, 1941, VOL. 11
NO. 9: [TABLE OF CONTENTS] AND SELECTED
ABSTRACTS. [1961] 5p. 10 refs.
Order from OTS or SLA \$1.10

61-20371

- 61-20371
I. Title: Dehydrogenation ...
II. Title: Dimerization ...
III. Title: Interaction ...

Abstract trans. of Zhurnal Osnovy Khimii (USSR)
1941, v. 11, no. 9, p. #683-685, 707-712, 745-756.
#A complete trans. is available from OTS or SLA \$1.10
as 61-18071 [1961] 4p.

DESCRIPTORS: *Alcohols, Dehydrogenation, *Rhenium
compounds, Chemistry, Abstracting, *Sulfides,
*Catalysts, Esters, Acetyl radicals, Acetones,
*Methyl radicals, Sulfates, Stilbenes, Chemical re-
actions, *Alkyl radicals, Phenols, Phenyl radicals,
Amines.

(Chemistry, TT, v. 7, no. 6)

(over)

Office of Technical Services

Glagoleva, A. A.
EQUILIBRIUM OF THE SYSTEM FORMIC ACID-WATER. [1960] 4p. 26 refs. TL 1234; M2139.
Order from LC or SLA m\$1.80, ph\$1.80 61-13634

Trans. of [Zhurnal Obozreniya Khimii] (USSR) 1941,
v. 11, no. 10, p. 765-767.

The phase diagram of the formic acid-water system has two characteristic maxima, corresponding to 1 g-mole water to 1 g-mole acid and 2 g-mole water to 1 g-mole acid. Three regions of eutectic crystallization are apparent on the phase diagram. Formic acid forms two stable systems with water in solution: HCOOH-H₂O and HCOOH-2H₂O. (Author)

(Chemistry--Physical, TT, v. 5, no. 3)

61-13634

- I. Formic acid-Solubility
- II. Glagoleva, A. A
- III. Trans-TL-1234

142,958

Office of Technical Services

Effect of the Penetrating Ray of Radium on the
Colloidal - Chemical Properties of Gelatin Sol's, by
A. N. Khenokh, 38 pp.

RUSSIAN, no per, Zhur Obshch Khim, I No 11, 1941,
pp 776 - 786.

OCMO Tr
QMD-269

Sci - Chem

(S)

Jan 52 CTS

Turova-Polyak, M. B. and Sidel'kovskaya, F. P.
ISOMERIZATION OF POLYMETHYLENE HYDRO-
CARBONS UNDER THE ACTION OF ALUMINUM
CHLORIDE. VII. ISOMERIZATION OF CYCLO-
HEPTANE [1961] 5p. 15 refs.

Order from OTS or SLA \$1.10 61-18017

Trans. of Zhurnal Obshchel Khimii (USSR) 1941, v. 11,
[no. 10] p. 817-820.

DESCRIPTORS: *Hydrocarbons, *Cycloheptanes,
*Molecular isomerism, Aluminum compounds,
Chlorides.

Isomerization of cycloheptane under the action of alumini-

61-18017

- I. Turova-Polyak, M. B.
II. Sidel'kovskaya, F. P.
III. Title: Isomerization
of Cycloheptane

1314774

Turova-Polyak, M. B and Sidel'kovskaya, F. P.
ISOMERIZATION OF POLYMETHYLENE HYDRO-
CARBONS. PART III. ACTION OF ALUMINUM
CHLORIDE. VIII. ISOMERIZATION OF HEXAHY-
DROGENSTYRENE. [1961] Jp. 8 refs.

Order from OTS or SLA \$1.10 61-18016

Transl. of Zhurnal Obshchey Khimii (USSR) 1941, v. 11
[no. 10] p. 621-623.

DESCRIPTORS: *Hydrocarbons, *Cyclohexanes,
*Molecular Isomerism, Methyl radicals, Aluminum
compounds, Chlorides.

The process of isomerization of hexahydromethylene
with aluminum chloride was investigated. Interaction of
aluminum chloride with hexahydromethylene gives a
mixture of hydrocarbons of which 88% consist of cyclo-
hexanes (including hexahydroethylene), 9% of cyclo-
pentane and 3% of paraffins. The group composition of
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18016

I. Turova-Polyak, M. B
II. Sidel'kovskaya, F. P.
III. Title: Isomerization of
Hexahydromethylene

181-70

Office of Technical Services

Turova-Polyak, M. B. and Vsevolozhskaya, E. V.
ISOMERIZATION OF POLYMETHYLENE HYDROCARBONS UNDER THE ACTION OF ALUMINUM
CHLORIDE. I. ISOMERIZATION OF 1, 2-DIMETHYL
CYCLOPENTANE. [1941] 5p. 22 refs.
Order from GTS or SLA \$1.10

61-18015

Trans. of Zhurnal Obschestva Khimii (USSR) 1941, v. 11
[no. 10] p. 823-828.

DESCRIPTORS: *Hydrocarbons, *Cyclopentanes,
*Molecular Isomerism, Aluminum compounds,
Chlorides.

The process of isomerization of 1, 2-dimethylcyclopentane under the action of aluminum chloride was investigated. It was established that 96.7% methylcyclohexane is formed by isomerization of 1, 2-dimethylcyclopentane. It was shown that the presence of two substituent groups in the molecule of cyclopentane does (Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18015

I. Turova-Polyak, M. B.
II. Vsevolozhskaya, E. V.
III. Title: Isomerization of 1, 2-Dimethylcyclopentane

Office of Technical Services

Investigation of the Alkaloids of *Senecio Othonnae*, by
E. S. Zhdanovich, G. P. Men'shikov, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XI, No 10, 1941,
pp 835-838.

28,992

Sci Tr Center
NY RT-2255

Scientific - Chemistry

Dec 55 CTS/DEX

+
Acridyl-9-(omega-haloidmethylketone). II. Production of 2-methoxy-6-chloracridin, by G. I. Braz,
3 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XI, No 10,
1941, pp 851-858.

Sci Trans Center
RT-1379

14,625

Scientific - Chemistry Dec 54 CTS/DRX

Equilibrium in the System Urea-Monoammonium Phosphate-Water, by V. P. Blinov, 7 pp.

RUSSIAN, per, Zhur Obshchey Khim, Vol XI, 1941, pp 887-890.

SLA R-2855

Sci

Jul 59

92, 395

The Kinetics and the Mechanism of the Oxidation-
Reduction-Reactions. VI. The Kinetics
of the Oxidation Reaction of the Ferrocyanide by
Bichromate; The Jet Method, by V. F. Stefanovskiy.
RUSSIAN, per, Zhur Obshch Khim, Vol XI, 1941,
pp 963-969.

AEC-IS-Tr-16

Sci-Chem

Jul 65

282,621

Delimarskii, Yu. K.
EQUILIBRIUM BETWEEN SOME MOLTEN METALS
AND THEIR BROMIDES IN ALUMINUM BROMIDE-
POTASSIUM BROMIDE AS SOLVENT. [1962] 21p.
Order from K-H \$26.25 K-H 5866 g
Trans. of Zhurnal Obozrekh Khimii (USSR)
1941, v. 11, no. 13/14, p. 1081-1091.

DESCRIPTORS: *Liquid metals, *Aluminum compounds,
*Potassium compounds, *Bromides,
Chemical equilibrium.

CFSTI TT 44-18404

(Chemistry--Physical, TT, v. 9, no. 11)

63-12934

I. Delimarskii, Yu. K.
II. K-H-5866-g
III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Petrov, A. D. and Shchukin, V. I.
ISOMERIZATION OF NORMAL HEPTENE TO
METHYLDIETHYLETHYLENE AND OF NORMAL
OCTENE TO DIMETHYLBUTYLETHYLENE. [1961]
Sp. 8 refs.

Order from OTS or SLA \$1.10

61-16934

Trans. of Zhurnal Obozreni Khimii (USSR), 1941, v. 11,
p. 1092-1095.

DESCRIPTORS: *Octenes, Isomerism, Chain reactions,
*Ethylenes, *Hydrocarbons, Raman spectroscopy,
Heptenes, Methyl radicals, Ethyl radicals, Butyl
radicals.

Isomerization of normal 1-heptene to methyldiethyl-
ethylene and of normal 1-octene to dimethylbutylethylene
was established. The difference in the schemes of
isomerization of normal olefins into branched chain
(Chemistry--Organic, TT, v. 6, no. 9) (over)

61-16934

I. Petrov, A. D.
II. Shchukin, V. I.

105407

Office of Technical Services

Petrov, A. D., Verentseova, N. I., and
Kokleeva, T. A.
SYNTHESIS OF 2-METHYL-4-HEXYNE AND
2,6-DIMETHYL-3-HEPTYNE. [1961] 5p. 12 refs.
Order from OTS or SLA \$1.10 61-16935

Trans. of Zhurnal Obshchey Khimii (USSR) 1941,
v. 11, p. 1096-1099.

DESCRIPTORS: Hydrocarbons, Synthesis, Antiknock,
*Fuels, Methyl radicals, *Heptynes, *Hexynes.

Synthesis of two new hydrocarbons is reported,
2-methyl-4-hexyne and 2,6-dimethyl-3-heptyne. Anti-
knock properties of acetylenic hydrocarbons have been
evaluated. (Author)

(Chemistry--Organic, TT, v. 6, no. 9)

61-16935

I. Petrov, A. D.
II. Verentseova, N. I.
III. Kokleeva, T. A.

105468

Office of Technical Services

Petrov, A. D. and Karlik, L. D. SYNTHESIS OF GLYCOLS OF THE ACETYLENE SERIES, [1961] 5p. 16 refs. Order from OTS or SLA \$1.10	61-16936 L Petrov, A. D. IL Karlik, L. D.
Trans. of Zhurnal Obshchey Khimii (USSR) 1941, v. 11, p. 11(x)-1103.	11/17/53
DESCRIPTORS: *Glycols, Synthesis, *Acetylene, Alcohols, Antiknock	
Synthesis of three acetylenic γ -glycols is reported: 5-decyne-4,7-diol, 9-octadecyne-8,11-diol, 10,13- dimethyl-11-docosyne-10,13-diol. The method of synthesis of glycols and alcohols of the acetylene series suggested by L. Kazaryan was tested. Anti- knock properties of acetylene alcohol and their sus- ceptibility to tetraethyllead was studied. (Author)	
(Chemistry--Organic, TT, v. 6, no. 7)	Office of Technical Services

Petrov, A. D., Pavlov, A. M., and Makarov, Yu. A.
SYNTHESIS OF 3-ETHYLDECANE AND 2,5-DI-METHYLUDECANE. [1961] 3p. 4 refs.
Order from OTS or SLA \$1.10 61-16937

Trans. of Zhurnal Obshchey Khimii (USSR) 1941, v. 11,
p. 1104-1106.

DESCRIPTORS: Synthesis, Antiknock, Halogenation,
*Hydrocarbons, Chain reactions, *Fuels, Ethyl
radicals, Methyl radicals.

Syntheses of two new paraffins are reported, 3-ethyl-decane and 2,5-dimethylundecane. Antiknock properties and pour points of three normal and branched chain paraffins with 12 and 13 carbon atoms have been evaluated. (Author)

(Chemistry--Organic, TT, v. 6, no. 9)

61-16937

I. Petrov, A. D.
II. Pavlov, A. M.
III. Makarov, Yu. A.

185409

Office of Technical Services

<p>Petrov, A. D. and Lapteva, E. I. SYNTHESIS AND PROPERTIES OF SOME HIGHER HOMOLOGS OF BENZENE. [1961] 5p. 12 r.s. Order from GTS or SLA \$1.10 61-16932</p>	<p>61-16938 L Petrov, A. D. IL Lapteva, E. I.</p>
<p>Trans. of <u>Zhurnal Gochichii Khimii (USSR)</u> 1961, v. 11, p. 1107-1110.</p>	
<p>DESCRIPTORS: Benzene, Synthesis, Antiknock, Chain reactions, Hydrocarbons.</p>	
<p>Three new homologs of benzene with branched side chains were synthesized, methylmethylphenylmethane, dimethylheptylphenylmethane and dimethylpentadecyl- phenylmethane. Antiknock properties of these and some other representatives of the series C_6H_5R with branched and normal paraffin chains were evaluated. (Author)</p>	
<p>(Chemistry--Organic, TT, v. 6, no. 7)</p>	
11115	
Office of Technical Services	

Oxy-analogue of Aneurin(Vitamin B-1),
by Y. M. Shashdin, M. S. Zeigal, Tp.
RUSSIAN, per, Zurnal Obshchei Khimii,
Vol 11, No 12, 1941, pp 1019-1022.
OTIS TX-65-60045

333, 592

Sci
Jul 67

The Condensation of Acetylene With Ketols, by
A. E. Favorskiy, A. S. Onishchenko.

RUSSIAN, per, Zhur Obshch Khim, Vol XI,
No 13/14, 1941, pp 1111-1120.

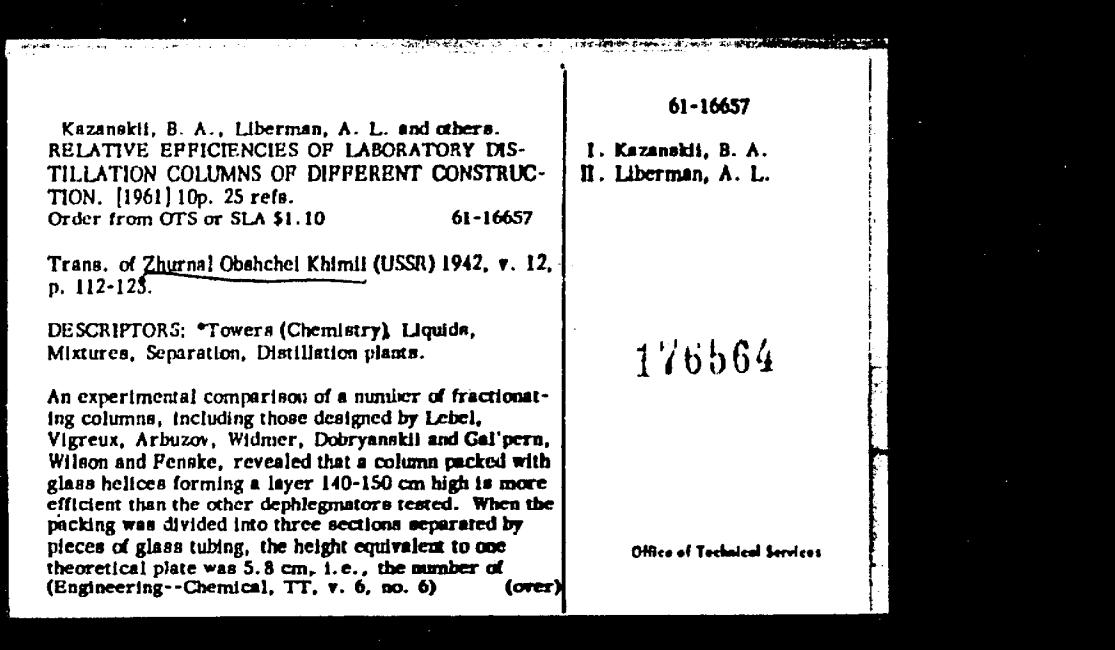
DSIR LLU M.1337
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SEA 66-16903

128,907

Sci - Chem

Oct 60



Venus-Danilova, E. D. and Bol'shukhin, A. I.
DEHYDRATION OF ALCOHOLS CONTAINING POLY-
METHYLENE RINGS. [1961] [8]p. 46 refs.
Order from OTS or SLA \$1.10 61-16617

Condensed trans. of Zhurnal Obshchei Khimii (USSR)
1942, v. 12, p. 73-85

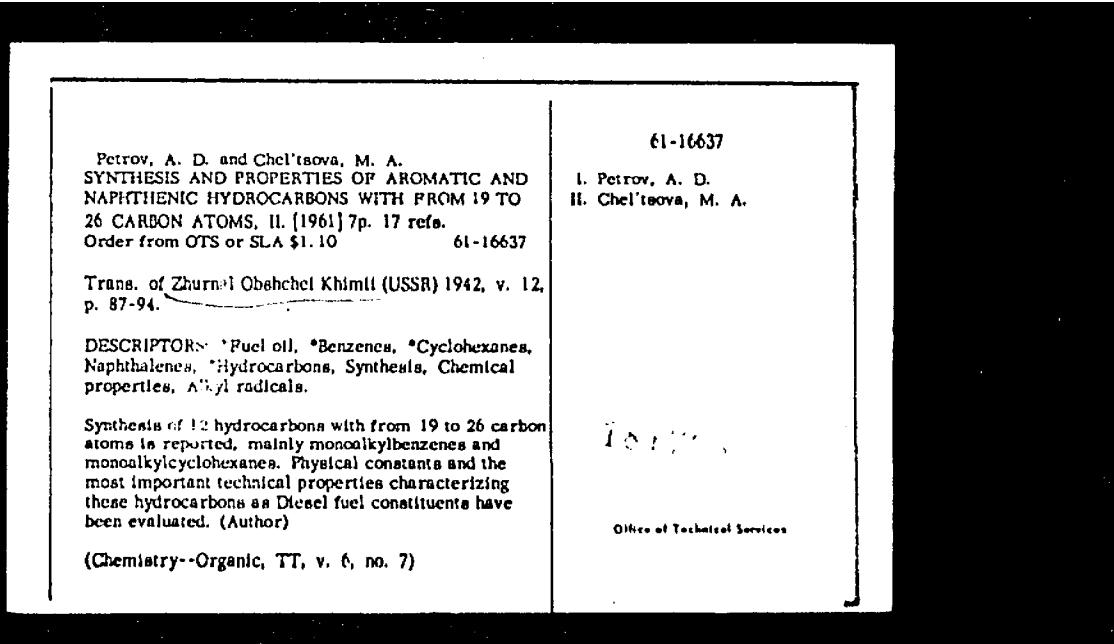
DESCRIPTORS: *Alcohols, Dehydration, *Methanes,
Synthesis, Chemical reactions

Research on dehydration of alcohols containing a naphthalene ring in the molecule is reported. From methylphenylcyclohexanol and 1,2-dimethylcyclohexylhexyldienemethane was obtained, under the action of anhydrous oxalic acid and thionyl chloride, cyclohexanol, benzylcyclobutanol, from phenylhexylhydrobenzylcarbinol, 1-p-tolyl-2-methylcyclohexene was obtained, from methacryloylcarbinol, ethyldenehexane. Methylcyclopentylcarbinol could not be dehydrated with 30% sulfuric acid, potassium bisulfate or anhydrous or crystalline oxalic acid.

61-16617

I Venus-Danilova, E. D.
II Bol'shukhin, A. I.

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Office of Technical Services
(Chemistry--Physical,
TE, v. 6, no. 7)



Petrov, A. D. and Kaplan, E. P.
SYNTHESIS AND PROPERTIES OF ISOPARAFFIN
HYDROCARBONS OF THE COMPOSITION C₁₂-C₂₂,
COMMUNICATION 2. [1963] 9p. 13 refs.
Order from OTS or SLA \$1.10

63-16801

63-16801
I. Petrov, A. D.
II. Kaplan, E. P.

Trans. of Zhurnal Obshchey Khimii (USSR) 1942, v. 12
[no. 1/2] p. 99-103.
An abstract trans. is available from OTS or SLA \$1.60
as 61-20323 [1961] 18p.

DESCRIPTORS: *Alkanes, *Alkenes, *Ethyl radicals,
*Methyl radicals, *Butyl radicals, Hydrocarbons,
Physical properties, Chemical properties, Bromides,
Synthesis (Chemistry).

The following hydrocarbons were synthesized for the
first time: 4,5-diethyloctane, 2,7-dimethyl-4,5-
diethyloctane, 7,8-diethyltetradecane, 5,6-dibutyl-
(Chemistry--Organic, TT, v. 10, no. 7) (over)

Office of Technical Services

<p>Kazanski, B. A., Liberman, A. L. and others. RELATIVE EFFICIENCIES OF LABORATORY FRACTIONATING OF VARIOUS CONSTRUCTIONS. [1963] 23p. 25 refs. Order from OTS or SLA \$2.60</p> <p>Trans. of <u>Zhurnal Obshchey Khimii</u> (USSR) 1942, v. 12, p. 112-122. Another trans. is available from OTS or SLA \$1.10 as 61-16657 [1961] 10p. and an abstract trans. \$1.60 in 61-20323 [1961] 18p.</p> <p>DESCRIPTORS: *Towers (Chemistry), *Distilling plants, Construction, Design, Effectiveness, *Fractionation.</p> <p>For abstract see Technical Translations 6: 417, 1961.</p> <p>(Engineering--Chemical, TT, v. 10, no. 6)</p>	<p>63-16037</p> <p>I. Kazanski, B. A. II. Liberman, A. L.</p>	
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Balandin, A. A.

KINETICS OF CATALYTIC MONOMOLECULAR
REACTIONS IN A FLOW SYSTEM, WITH DISCOUNT
OF DISPLACEMENT THROUGH ALIEN SUBSTANCES.
[1962] 8p. 10 refs.

Order from OTS or SLA \$1.10

62-20386

Trans. of Zhur[nal] Obshchel Khim[ic] (USSR) 1942,
v. 12, no. 3/4, p. 153-159.
An abstract trans. is available from OTS or SLA \$1.10
in 61-20325 [1961] 5p.

DESCRIPTORS: *Reaction kinetics, *Catalysis, Fluids,
Pressure, Dehydrogenation, Alcohols, Molecular
isomerism.

A kinetic equation was deduced and solved for a
general case mentioned in the title (steady state).
Some admissible simplifications were examined. Re-
(Chemistry--Physical, TT, v. 9, no. 12) (over)

62-20386

I. Balandin, A. A.

Office of Technical Services

Theory of Heat Capacities of Ions in Solution, by
A. F. Kapustinskiy, 10 pp.

RUSSIAN, ~~as bimo per~~, Zhur Obshch Khim, Vol XII,
No 3-4, 1942, pp 186-192.

Sci Tr Center RT-328

Scientific - Chemistry

10,138

<p>Medvedchuk, P. I., Aldoshin, T. D. and others. REACTIONS OF IODINE, IODINE CHLORIDE AND THIOCYANOGEN WITH HYDROCARBONS OF NATURAL AND SYNTHETIC RUBBERS. [1961] 7p. 23 refs. Order from OTS or SLA \$1.10 61-16638</p> <p>Trans. of Zhurnal Obshchey Khimii (USSR) 1942, v. 12, p. 220-226.</p> <p>DESCRIPTORS: Iodine, Iodine compounds, Chlorides, Hydrocarbons, *Rubber, *Synthetic rubber, Chemical reactions, Thio radicals, Cyanogen.</p> <p>Interaction of solutions of iodine, iodine chloride and thiocyanogen with solutions of natural and synthetic sodium-butadiene rubber were investigated. Data were obtained proving beyond doubt the analogous properties of the hydrocarbons investigated. However, their chemical activities differ, due to differences in struc- ture. Addition products of halogens and thiocyanogen to (Materials--Rubber, TT, v. 6, no. 6) (over)</p>	<p>61-16638</p> <p>I. Medvedchuk, P. I. II. Aldoshin, T. D.</p> <p>176562</p> <p>Office of Technical Services</p>	
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<p>Nemetkin, S. S. and Teneva, R. S. NEUTRAL PRODUCTS OF OXIDATION OF PARAFFIN WAX WITH OXYGEN OF THE AIR [1961] 9p. 10 refs. Order from OTS or SLA \$1.10 61-16666</p> <p>Trans. of <u>Zhurnal Obshchey Khimii</u> (USSR) 1942, v. 12, p. 229-239.</p> <p>DESCRIPTORS: *Synthetic waxes, Oxidation, Oxygen, Air, Aldehydes, Alcohols, Peroxides.</p> <p>Investigation of the neutral products of oxidation of paraffin wax, with oxygen of the air established that they contain straight chain aldehydes from butyric to stearic, inclusive, and primary alcohols from propyl to octadecyl, inclusive. The mechanism of oxidation of paraffin wax with oxygen of the air is discussed, showing that the entire factual material available can be interpreted from the point of view of the peroxide theory. (Author)</p> <p>(Chemistry--Physical, TT, v. 6, no. 6)</p>	<p>61-16666</p> <p>I. Nemetkin, S. S. II. Teneva, R. S.</p> <p>376507</p> <p>Office of Technical Services</p>
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Nikolaeva, A. F.
HYDROGENATION OF METHYLCYCLOPENTANE
AND CYCLOHEXANE UNDER HYDROGEN PRESSURE.
[1961] 6p 14 refs.

Order from OTS or SLA \$1.10 61-16639

Trans. of Zhurnal Obshchel Khimii (USSR) 1942, v. 12,
p. 240-245.

DESCRIPTORS: *Hydrogenation, *Cyclopentanes,
*Cyclohexanes, Hydrocarbons, Hexanes, Methyl
radicals.

Hydrogenation of methylecyclopentane at 400° and an
initial hydrogen pressure of 140 atm in the presence
of molybdenum sulfide brought about a conversion of
the hydrocarbon to normal hexane, 1-hexene and 1-
methylpentane. Simultaneously with hydrogenation,
isomerization of methylecyclopentane occurred, forming
cyclohexane. Investigation of the products of hydro-
genation of cyclohexane revealed that with increase of
(Chemistry--Organic, IT, v. 6, no. 7) (over)

61-16639

L. Nikolaeva, A. F.

Office of Technical Services

Kazanskii, B. A. and Rozengart, M. L.
CATALYTIC POLYMERIZATION OF BUTENES OVER
ALUMINUM SILICATE, IL [1961] 10p. 12 refs.
Order from OTS or SLA \$1.10 61-16640

Trans. of *Zhurnal Obrashchel Khimii (USSR)* 1942, v. 12,
p. 246-254.

DESCRIPTORS: *Butenes, Polymerization, Aluminum
compounds, *Silicates, Catalysts.

(Chemistry--Organic, TT, v. 6, no. 7)

61-16640
L Kazanskii, B. A.
IL Rozengart, M. L

61-16640

Office of Technical Services

Alekscevskii, E. V. and Kuznetsova-Kharina, O. M.
INVESTIGATION OF SORPTION OF ACETYLENE.
[1961] 10p. 19 refs.

Order from OTS or SLA \$1.10 61-16916

Trans. of Zhurnal Osnovoi Khimii (USSR) 1942, v. 12,
p. 296-305.

DESCRIPTORS: *Acetylenes, Cellulose, Esters, Catalysts, Stearates, Adsorbents.

The dynamic activity of various sorbents and certain catalysts with respect to acetylene have been estimated, and on the basis of the data obtained the unsuitability of the following substances established for gas mask protection against acetylene: various commercial carbons, gels, impregnated charcoal and heparite. The retaining capacity of various impregnated carbons with respect to acetylene is insignificant. The sorption isotherms have been investigated for acetylene on ethyl n-heptadecyl ketone, cellulose and some esters (Chemistry--Organic, TT, v. 6, no. 7) (over)

61-16916

L Alekscevskii, E. V.
IL Kuznetsova-Kharina, O. M.

10171
Office of Technical Services

Alekseevskii, E. V. and Likharev, N. A.
EFFECT OF SOME CHEMICAL AND PHYSICAL
FACTORS ON THE ACTIVITY OF CARBON. VIII.
CHLORINE ACTIVATION. [1961] 14p, 15 refs.
Order from OTS or SLA \$1.60 61-16893

Trans. of Zhurnal Obrshechii Khimii (USSR) 1942, v. 12,
p. 306-320.

DESCRIPTORS: *Activated carbon, Synthesis,
*Chlorine, Adsorption, Vapors.

Preparation of active carbons from various raw materials by carbondization at 750° and 950° was investigated. Sorption of vaporized and dissolved substances by chlorine-activated carbons was studied. Marked sorption activity of chlorine-activated carbons was established with respect to vapors, as well as dissolved substances, which exceeds in some cases the activity of steam-activated commercial carbons. The considerable amount of chlorine accumulated in chlorine-activated (Chemistry--Physical, TT, v. 6, no. 7) (over)

61-16893

I. Alekseevskii, E. V.
II. Likharev, N. A.
III. Title: Chlorine...

181704

Office of Technical Services

The Alkaloid Delphamine From Delphinium Sp. I. Alkaloids of the Species of Delphinium, by M. S. Rabinovich, and R.A. Konovalova.

Full translation.

RUSSIAN, no par, Zhur Obshch Khim, USSR, Vol XII, 1942,
pp 321-328.

ABC Tr 1457

Scientific - Chemistry, alkaloid delphamine

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I. The Alkaloid Condelphine From Delphinium Confusum
M. Pop; II. Alkaloids of Species of Delphinium
fam. Ranunculaceae, by M. S. Rabinovich, V. A.
Konovalova.

R.

Full translation.

RUSSIAN, no per, Zhur Obshch Khim, Vol XII, USSR,
1942, pp 329-336.

AEC Tr 1631

Scientific - Chemistry

4823

Aug 53 CTS

Organometallic Compounds in the Friedel-Crafts
Reaction, by A. P. Skoldinov, K. A. Kocheskov, 5 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XII, No 7-8,
1942, pp 398-402.

Assoc Tech Serv RJ628

Sci
Apr 59

84,465

Method for the Synthesis of Organo-Metallic
Lead Compounds With a Substituted Group
in the Benzene Nucleus, by M. N. Nad',
K. A. Kocheshkov.
RUSSIAN, per, Zhur Obshchei Khim, Vol XII,
1942, pp 409-414.
K-H-6108

Jan 67

317,903

Levina, R. Ya.

MECHANISM OF IRREVERSIBLE CONTACT CONVERSION OF CYCLOHEXANE AND CYCLOHEXENE HYDROCARBONS WITH UNSATURATED SIDE CHAINS. II. IRREVERSIBLE CATALYSIS OF A CYCLOHEXANE WITH AN OLEFINIC SIDE CHAIN, THE DOUBLE BOND OF WHICH IS SEPARATED FROM THE RING BY A QUATERNARY CARBON ATOM. [1961] 10p.

57 refs.

Order from OTS or SLA \$1.10

61-16664

Transl. of Zhurnal Obshchel Khimii (USSR) 1942, v. 12, p. 422-432.

DESCRIPTION: *Hydrocarbons, cyclic, c. *C₆ to
cyclic, rings with unsaturated side chains. Chemical bonds, Molecular
Geometry, n.

The correctness of the previously proposed mechanism of irreversible contact conversion of cyclohexane and cyclohexene with unsaturated side chains was verified.
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-16664

- I. Title: Contact conversion
- I. Levina, R. Ya.
- II. Title: Irreversible...

10141

Office of Technical Services

Nad, M. M. and Kocheskov, K. A.
METHOD FOR THE SYNTHESIS OF ORGANO-METALLIC LEAD COMPOUNDS WITH A SUBSTITUTED GROUP IN THE BENZENE NUCLEUS. [1963] 9p
Order from K-H \$9.00
K-H 6108

Trans. of [Zhurnal Obshchey Khimii] (USSR) 1942,
v. 12 [no. 7/8] p. 409-414.
Abstract trans. is available from OTS or SLA \$1.10
in 61-20327 [1961] 6p.

DESCRIPTORS: *Metalorganic compounds, *Lead compounds, *Benzene, Substitution reactions, Synthesis (Chemistry), Nuclei.

(Chemistry--Organic, TT, v. 10, no. 12)

63-22815

- I. Nad, M. M.
- II. Kocheskov, K. A.
- III. K-H-6108
- IV. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

Hydration of Pyrophosphoric Acid, by V. N.
Zel'gov, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XII, 1942.
pp 468-473.

SLA R-2646

Sci

Aug 58

72,969

Structure of Phenolaldehyde Resins. XI. The Nature
of Resinous Condensation Products of Phenol With
Formaldehyde, by A. A. Vansheidt, A. T. Itenberg,
V. S. Shifrina, 7 pp. UNCLASSIFIED.

RUSSIAN, per, Zhur Obshch Khim, Vol XIII, 1942,
pp 500-509.

CIA/FDD/X-1472

Scientific Chemistry

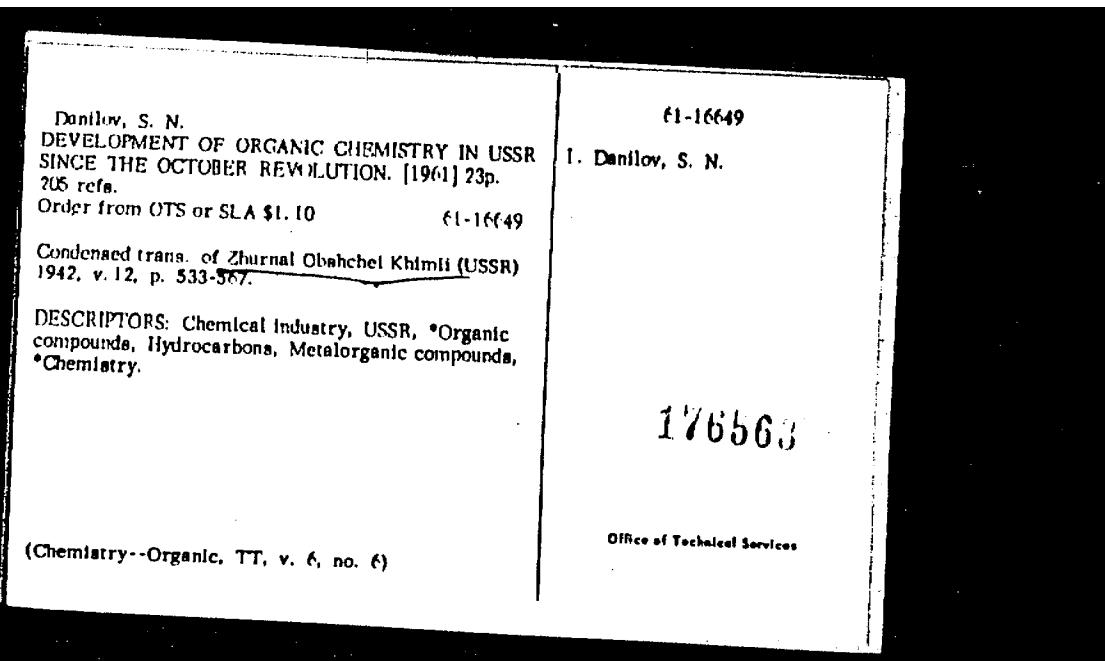
13,651

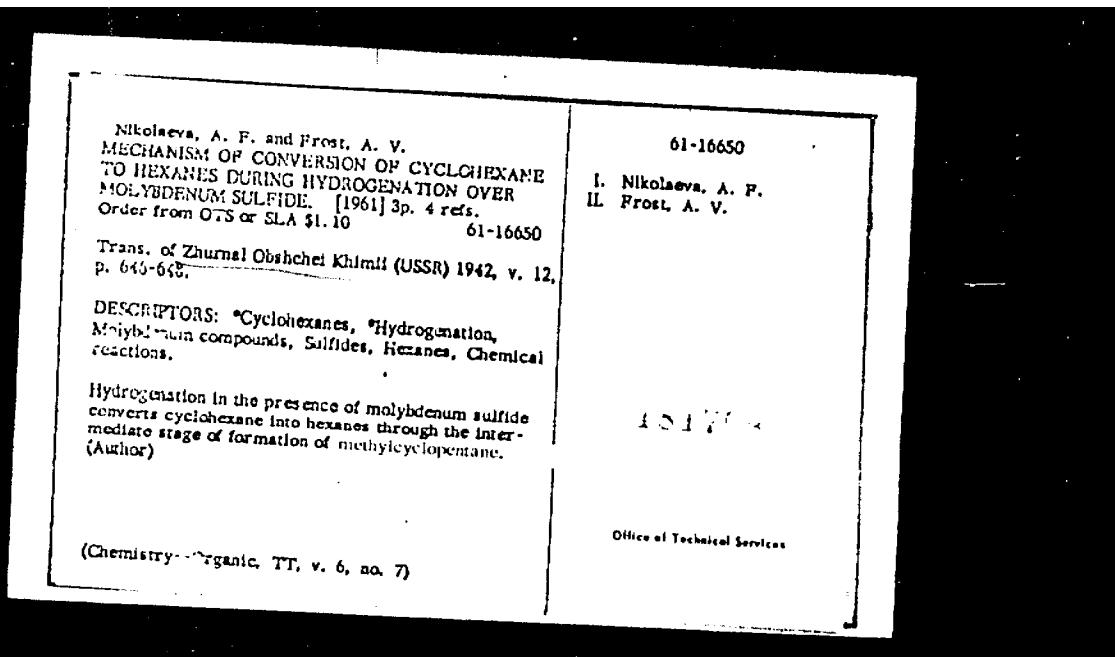
Comparative Hydrogenation of Octadecanic
Acids, by Pigulevskii, P. A. Artamonov,
Ily.

RUSSIAN, per, Zhurnal Obschei Khimii,
Vol 12, No 9/10, 1942, pp 510-517.
OTS TT-65-60100

Sci
Aug 67

333, 847





V
A Contribution to the Problem of Vinyl Ethers, I.
Synthesis and Properties of Vinyl Ethers, by A. Z.
Favorskiy, M. F. Shostakovskiy, 42 pp.

RUSSIAN, per, Zhur Obshchei Khim, Vol XIII, No 1/2,
1943, pp 1-20.

Sci Tr Center
RT - 3760

Sci - Chemistry

Aug 1956

37/74

SLA 61-621

Plate, A. P. and Tarasova, G. A.
MECHANISM OF CONTACT CONVERSIONS OF HYDROCARBONS ON A VANADIUM CATALYST.
I. CONTACT CONVERSIONS OF NORMAL HEPTANE [Nizkotemperaturnye Pravilnosti Reaktivnosti na Vanadievom Katalizatore]. [1961]

15 p. 26 refs.
Order from OTS or SLA \$1.60

61-16982

Trans. of Zhurnal Obshchey Khimii (USSR) 1943, v. 13, [no. 1/2] p. 21-35.

DESCRIPTORS: *Hydrocarbons, *Heptanes, Dehydrogenation, Vanadium catalysts, Monocyclic compounds,

Dehydrogenation of normal heptane on the vanadium trioxide-alumina catalyst was investigated within the temperature interval of from 410 to 510°. The velocity of the total reaction of dehydrogenation was indicated by the amount of gas (hydrogen) liberated per 3 minutes, and it was established that the change of the (Chemistry--Organic, TT, v. 6, no. 7) (over)

61-16982

- I. Title: Contact conversion
- II. Plate, A. P.
- III. Tarasova, G. A.

151764

Office of Technical Services

Plate, A. F. and Terasova, G. A.
MECHANISM OF CONTACT CONVERSIONS OF HYDROCARBONS ON A VANADIUM CATALYST.
II. KINETICS OF CYCLIZATION OF NORMAL HEPTANE [Mekhanizm Kontaktnykh Prevrashchenii Uglevodorodov na Vanadievom Katalizatore]. [1961] 7p. 17 refs.

Order from OTS or SLA \$1.10

61-16981

Trans. of *Zhurnal Obrabotki Khimicheskikh Veshchestv* (USSR) 1945, v. 13 [no. 1/2] p. 36-40.

DESCRIPTORS: *Hydrocarbons, *Heptanes, Cyclohexane, Dehydrogenation, Vanadium catalysts, Monocyclic compounds.

It was established that the total reaction of dehydrogenation of normal heptane on vanadium catalyst follows the Arrhenius equation and that the apparent energy of activation of this reaction is 41,100 cals per (Chemistry--Organic, TT, v. 6, no. 7) (over)

61-16981

- I. Title: Contact conversion
II. Plate, A. F.
III. Terasova, G. A.
IV. Title: Kinetics...

451761

Office of Technical Services

The Action of Aluminum Chloride on N-nitramino-pyridine in the Presence of Benzene, by D. N. Kur-sanov, E. A. Ignat'eva, 14pp.

Zhur Obshch Khim
RUSSIAN, no per., Vol XIII, No 1-2, 1943, pp 62-67.

Sci Tr Ctr RT-3813

Sci - Chemistry
Aug 56 Cte/alex

37,541

Conjugated Systems. XVIII. Interaction of Chloro-
ethene with Chlorine, by A. A. Petrov, 12 pp.

Zhur. Obshch. Khim.
Russian, no per., Vol XIII, No 1-2, 1943, pp102-107.

Sci Tr Ctr RT-3817

Sci - Chemistry
Aug 55 CPS/dev

37,542

Conjugated Systems. XIX. Bromination of
Chloroprene, by A. A. Petrov, 11 pp.

RUSSIAN, per, Zhur Obshchey Khim, Vol XLIII, No 1/2,
1943, pp 108-112.

Sci Tr Center
RT - 3860

Sci - Chemistry

37,160

Aug 1956

The Effect of the Diameter of Laboratory Columns
with Fenske Packing on Their Efficiency and
Throughput, by B. A. Kuzanskiy, et al. 12 pp
UNCLASSIFIED

RUSSIAN, per, Zhur Obshch Khim, Vol XIII, No 3,
1943, pp 125-130,

Sci Tr Center
RT-1010

Scientific - Chemistry

15, 361

JOURNAL OF GENERAL CHEMISTRY, 1943,
VOL. 13, NO. 3: [TABLE OF CONTENTS] AND
SELECTED ABSTRACTS. [1961] 13p. 10 refs.
Order from OTS or SLA \$1.60 61-20331

Abstract trans. of *Zhurnal Obshchei Khimii* (USSR)
1943, v. 13, no. 3, p. 131-158, 164-168, 175-188,
202-216, 230-241.
*Complete translations of p. 136-144, 184-188,
202-212 are available separately.

DESCRIPTORS: *Chemistry, Abstracting, Periodicals,
Alcohols, Silicic acids, Acids, Esters, Butadienes,
Synthesis, Urea derivatives, Ketones, Alkylation,
Chloroprenes, Iodine, Bromine, Chemical reactions,
Stibenes, Hydrolysis, Vanadium, Catalysts, Ethyl
radicals, Cyclopentanes, Pentanes.

(Chemistry, TT, v. 7, no. 1)

(over)

61-20331

- I. Title: Arylation...
- II. Title: Interaction of
Chloroprene...
- III. Title: Alkylation...
- IV. Title: Hydrolysis...
- V. Title: Contact...
- VI. Title: Interaction of 1, 2...
- VII. Title: Order...

Office of Technical Services

Intramolecular Rearrangements in the Aromatic Series.
III. Arylation and Alkylation of Aryl-Derivatives
of Urea, by G. I. Gershzon, 17 pp.

RUSSIAN, per, Zhur Obshchoi Khim, Vol XIII, No 3,
1943, pp 136-144.

Sci Tr Center
RT - 3841

Sci - Chemistry

37,175

Aug 1956

The Nature of Semicyclic Double Bonds. The Behavior of Cyclohexylidene Derivatives Under the Action of Certain Reagents Capable of Addition to Ordinary Double Bonds, by D. N. Kursenov, A. S. Korsanova, 9 pp.

Rossia, no par, Zhur Obsnich Khim, Vol XIII, No 3, 1943, pp 184-185.

Sci Tr Center
RU-3852

39,140

Sci - Chemistry
Copy 56 CMS/Box

Alkylation with Olefines in the Presence of
Aluminum Chloride. Communication I , by S. I. Lur'e
A. Ya. Golovacheva, 12 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIII, No 3,
1943, 189-194.

Sci Tr Ctr RT-3853

SLA 61-16619

37,543

Sci - Chemistry
Aug 56 CTB/dex

Alkylation With Olefines in the Presence of
Aluminum Chloride, Communication II., 15 pp.
by S. I. Lur'e, A. Ya. Golovacheva

RUSSIAN, no per, Zhur Obshch Khim, Vol XIII,
No 3, 1943, pp 195-201.

Sci Tr Center
RT-3854

37,882

Sci - Chemistry

Aug 1956

SLA 61-10671

The Mechanism of Contact Transformations of
Hydrocarbons on a Vanadium Catalyst. III.
The Contact Transformations of Ethyl-Cyclo-
Pentane, by A. F. Plate, O. D. Sterligov, 24 pp.

RUSSIAN, no pag., Zhur Obshch Khim, Vol XIII,
No 3, 1943, pp 202-212.

Sci Tr Center
RT-3858

Sci - Chemistry

Aug 1956

37,883

SLA 6/1/64

Zhur Otsukh Khan

Val 13, pp 253-66 (1943)

New Complex Compounds of Phenium

V. V. Echedinekii
B. N. Ivanov - Transl.

AEC Jr # 299
Brookhaven

Solubility of Lithium Bromate and of its Hydrates,
Communication II, by I. N. Averko-Antonovich,
7 pp.
RUSSIAN, per, Zhur Obshch Khim, Vol XIII, 1943,
pp 272-278, 9250303.
AEC BNL-tr-5

292,9547

Sci-Chem
Nov 65

Polymerization of Isobutylene Over Hydrosilicic Catalysts. Communication III., by B. A. Kazanskiy, M. I. Rozengart, 9pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIII,
No 4-5, 1943, pp 304-308.

Sci Tr Ctr- RT-3808

Sci-Chemistry
Aug 56 CTS/dex

37,537

A New Method of Separating Lupinine From Crude
Anabasine Sulphate, by A. Sadykov, G.
Lazarevski

RUSSIAN, per, Zhur Obshch Khim, Vol XIII, 1943,
pp 319-321.

AEC Tr 1153

Scientific - Chemistry

Turova-Polyak, M. B. and Rappoport, P. L.
ISOMERIZATION OF POLYMETHYLENE HYDRO-
CARBONS UNDER THE ACTION OF ALUMINUM
CHLORIDE. X. ISOMERIZATION OF METHYL-
CYCLOHEPTANE. [1961] 5p. 11 refs.
Order from OTS or SLA \$1.10

61-16660

Trans. of Zhurnal Obshchel Khimii (USSR) 1943,
v. 13, p. 333-357.

DESCRIPTORS: *Hydrocarbons, *Cycloheptanes,
*Molecular Isomerism, Aluminum compounds,
Chlorides.

Interaction of methylcycloheptane with aluminum chloride,
accompanied by liberation of heat, results in complete
conversion of methylcycloheptane into dimethyl-
cyclohexane. Under the conditions of catalytic dehydro-
genation methylcycloheptane undergoes an isomeri-
(Chemistry--Organic, IT, v. 6, no. 7) (over)

61-16660

I. Turova-Polyak, M. B.
II. Rappoport, P. L.
III. Title: Isomerization of
Methylcycloheptane

15171

Office of Technical Services

Polarographic Determination of Copper, Nickel,
Cobalt, Zinc and Cadmium When Simultaneously
Present, by D. P. Malyuga.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIII,
No 6, 1943, pp 391-397.

Assoc Tech Sv RJ-259
\$12.00

Scientific - Chemistry; h/m. 27,695
CTS 73/Oct 1955

Shostakovskii, M. F. and Sidel'kovskaya, F. P.
STUDIES IN THE FIELD OF THE POLYMERIZATION
OF SIMPLE VINYL ETHERS: VINYL-ISOBUTYL
ETHER (Issledovaniya v Oblassti Polimerizatsii
Prostikh Vinilovykh Efirov: Vinyl-Izobutylefir).
[1963] [20p] (foreign text included) 7refs
Order from OTS or SLA \$1.60

63-20181

Trans. of Zhurnal Obshchey Khimii (USSR) 1943,
v. 13, no. 6, p. 428-435.
Abstract trans. is available from OTS or SLA \$1.10
as 62-16830 [1962] 4p.

DESCRIPTORS: *Vinyl radicals, *Butyl radicals,
Propyl radicals, *Ethers, Polymerization, *Catalysts,
*Tin compounds, Chlorides, Density, Refractive
index, Viscosity, Saponification, *Polyvinyl alcohol.

(Chemistry--Organic, TT, v. 10, no. 12)

63-20181

- I. Title: Vinyl isobutyl ether
- II. Shostakovskii, M. F.
- III. Sidel'kovskaya, F. P.

Office of Technical Services

Investigation in the Ketone Series. II.
Condensation of Monoketones with Cyanoacetic
Acid, by D. N. Trakhtenberg, M. M. Shemjakin,
7 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIII, No
6, 1943, pp 477-480.

Sci Tr Center
RT-3838
0 37,885
Sci - Chemistry

Aug 1956

Maslyanskii, G. N.
KINETICS OF ISOMERIZATION OF CYCLOHEXANE
UNDER ELEVATED PRESSURES. [1961] 11p. 28 refs.
Order from OTS or SLA \$1.10 61-16913

Trans. of Zhurnal Otechet Khimii (USSR) 1943, v. 13,
p. 540-551.

DESCRIPTORS: *Cyclohexane, Reaction kinetics,
Catalysis.

The catalytic isomerization of cyclohexane over molybdenum sulfide at constant hydrogen pressure was investigated and the kinetic regularities of this reaction established. The isomerization velocity depends upon the partial pressure of cyclohexane, but is independent of the partial pressure of hydrogen. The order of the reaction of isomerization of cyclohexane over molybdenum sulfide is close to 0.6. The apparent energy of activation of cyclohexane at 370-430° is 35,400 ± 1,000 calories. Accordingly the temperature coefficient on (Chemistry--Physical, TT, v. 6, no. 7) (over)

61-16913

I. Maslyanskii, G. N.

Office of Technical Services

Pokrovskaya, E. S.
SYNTHESIS OF POLYCYCLIC HYDROCARBONS. I.
HYDROCARBONS OF THE SERIES OF α -METHYL-
CYCLOPENTYNAPHTHALENE. [1961] 4p. 9 refs.
Order from OTS or SLA \$1.10 61-16897

Conf. based trans. of Zhurnal Obshchei Khimii (USSR)
1942, v. 12, p. 579-583.

DESCRIPTORS: *Hydrocarbons, *Polycyclic compounds,
*Naphthalenes, Synthesis.

By condensation of α -methylnaphthalene with cyclopentene in the presence of aluminum chloride, α -methylcyclopentynaphthalene, α -methylidycyclopentynaphthalene and α -methyltricyclopentynaphthalene were obtained. From a mixture of these hydrocarbons were again separated two others, and under the same conditions α -methyltricyclopentynaphthalene was obtained. The specific gravities of these hydrocarbons are some-
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-16897

I. Pokrovskaya, E. S.
II. Title: Hydrocarbons ...

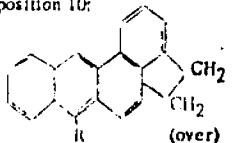
Office of Technical Services

Mikhailov, B. M. and Blokhina, A. N.
SYNTHESIS OF POLYCYCLIC COMPOUNDS. VIII.
10-ALKYL DERIVATIVES OF 3,4'-ACE-1,2-BENZ
ANTHRACENE. [1961] pp. 13 refs.
Order from OTS or SLA \$1.10 61-16896

Condensed trans. of Zhurnal Obshchey Khimii (USSR)
1961, v. 13, p. 609-615.

DESCRIPTORS: *Polycyclic compounds, Benzenes,
*Anthracenes, Synthesis, Alkyl radicals.

Synthesis of four 3,4'-ace-1,2-benzanthracenes is re-
ported, containing a methyl, ethyl, normal propyl or
normal butyl radical in position 10:



61-16896

I. Mikhailov, B. M.
II. Blokhina, A. N.
III. Title: 10-Alkyl ...

1. 3,4'-ACE-1,2-BENZ
ANTHRACENE

Office of Technical Services
(Chemistry-Organic,
TT, v. 6, no. 7)

Getling, V. A. and Shchekin, V. V.
PREPARATION OF SOME HIGH MOLECULAR HYDROCARBONS. [1961] 4p. 16 refs.
Order from OTS or SLA \$1.10

61-16899

Condensed trans. of Zhurnal Obshchei Khimii (USSR) 1943, v. 13, p. 717-721.

DESCRIPTORS: *Hydrocarbons, Synthesis, Catalysts, Hydrogenation, Molecular weight, Alcohols, Benzenes, Cyclohexanes.

Synthesis of normal octadecane in mixture with normal octadecyl alcohol is reported by hydrogenation of sunflower oil fatty acids over a copper-chromium catalyst. From normal octadecyl alcohol and benzene, normal octadecylbenzene was obtained, and this was hydrogenated quantitatively to normal octadecylcyclohexane. (Author)

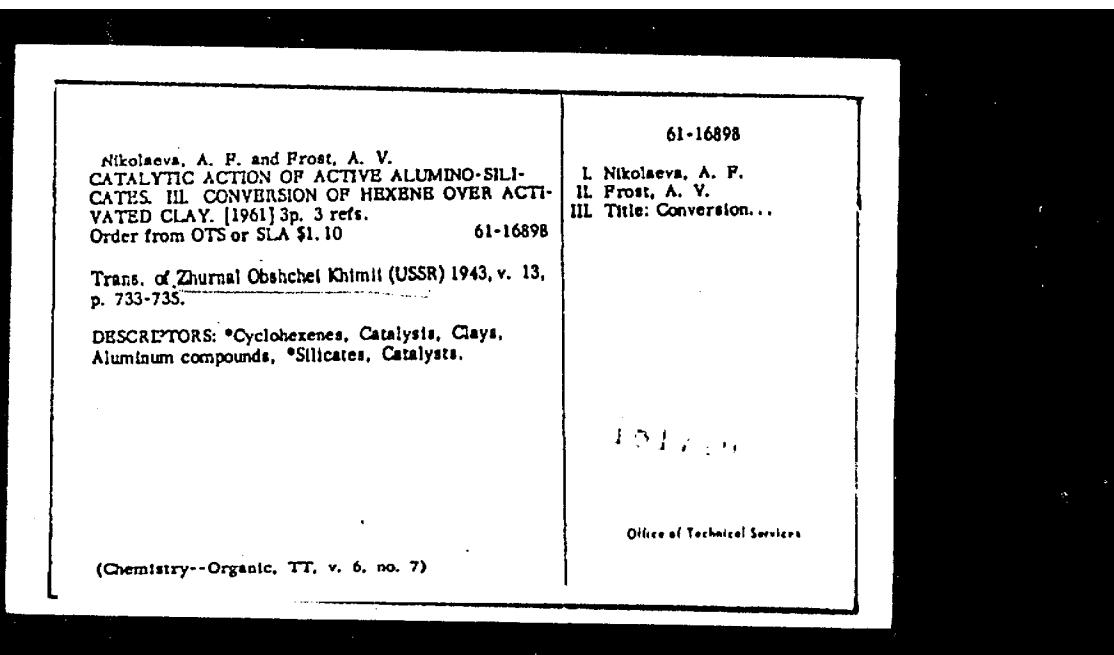
(Chemistry--Organic, TT, v. 6, no. 8)

61-16899

I. Getling, V. A.
II. Shchekin, V. V.

105120

Office of Technical Services



Ya. A. Fialkov

Electric conductivity of iodine solutions. 3: Electric conductivity of the system: I-Me4NI

ZH. OBSHCH. KHM., Vol 13, 1943, pp 753-761

NASA TT F 13, 911

mar 73

The Separation of Anabasine and Luinine from an
Alkaloid Mixture Using a Liquid Ammonia Mixture, y
by A. Sadykov, dn and N. Spasokutotskii.

Full translation.

RUSSIAN, per Zhur Obshch Khim, Vol XIII, USSR, 1943,
pp 830-833.

Scientific - Chemistry AEC Tr 1264

Differential Thermocouple Method in Heterogeneous
Catalysis, by A. A. Balandin, V. V. Patrikeyev,
10 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIV, No 1/2
1944, pp 57-69.

Sci Tr Center
RT -2656

Scientific - Chemistry
Dec 55 CTS/DEX

28/88

Electrochemical Thiocyanation of Organic Compounds.
Com. III. Thiocyanation of p-substituted Aromatic AMINE
Amines, by N. N. Mel'nikov, E. M. Cherkasova,
6 pp UNCLASSIFIED

RUSSIAN, per, Zhur Obshchei Khim, Vol XIV, No 1-2,
1944, pp 113-115.

Sci Tr Center
RT-1009

Scientific - Chemistry

15,356

Nazarova, Z. N. and Tsukervanik, I. P.
ALKYLATION OF AROMATIC COMPOUNDS WITH
ALCOHOLS IN THE PRESENCE OF ANHYDROUS
FERRIC CHLORIDE. [1961] 4p. 4 refs.
Order from OTS or SLA \$1.10

61-16906

Tran. of Zhurnal Obshchei Khimii (USSR) 1944,

v. 14 [no. 1/2] p. 77-80.

DESCRIPTORS: *Alcohols, *Iron compounds, *Chlorides, *Catalysis, Condensation reactions, Alkyl radicals, *Reaction kinetics, Phenols, Benzenes

Attempts to condense normal primary aliphatic alcohols with benzene and phenol in the presence of anhydrous ferric chloride were unsuccessful. Experiments of condensation of benzyl alcohol with benzene and phenol gave diphenylmethane and benzylphenol. (Chemistry--Physical, TT, v. 7, no. 3) (over)

61-16906

I. Nazarova, Z. N.
II. Tsukervanik, I. P.

Office of Technical Services

Synthesis of Chlorostyrenes, by S. N. Ushakov,
P. A. Matuzov, 13 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIV,
No 1/2, 1944, pp 120-127.

Sci Tr Center
RT-3833

Sci - Chemistry

37,888

Aug 1956

Maslyanski, G. N.
DESTRUCTIVE HYDROGENATION OF BENZENE.
[1961] 10p. 28 refs.

Order from OTS or SLA \$1.10

61-18193

Trans. of Zhurnal Obshchey Khimii (USSR) 1944, v. 14,
p. 145-160.

DESCRIPTORS: *Benzene, Hydrogenation, Hydrocarbons, Catalysts, Molybdenum compounds, Oxides.

Molybdenum oxide catalysts suitable for destructive hydrogenation in the vapor phase, developed at the author's laboratory, were previously found to be very efficient in cracking of hydrocarbons. In order to investigate the nature of the chemical reactions occurring on these catalysts, conversion of benzene was studied in this work and the products obtained investigated, considering also the results reported by some other authors. Among these products, methylcyclopentane (58%), normal pentane (1.5%), 2-methylbutane (1.5%), (Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18193

I. Maslyanski, G. N.

1797
Office of Technical Services

Nazarova, Z. N. and Tsukervanik, L. P.
MECHANISM OF REACTIONS OF ALKYLATION UNDER THE INFLUENCE OF ANHYDROUS FERRIC CHLORIDE, [1961] 10p, 15 refs.
Order from OTS or SLA \$1.10

61-18168

Trans. of Zhurnal Obshchey Khimii (USSR) 1944, v. 14
p. 236-244.

DESCRIPTORS: *Iron compounds, *Chlorides, *Catalysis, *Alcohols, Condensation reactions, Ethyl radicals, Reaction kinetics, Bromides, Alkyl radicals.

It was established that no condensation of ethyl bromide, normal butyl chloride and isoamyl chloride with aromatic hydrocarbons occurs in the presence of ferric chloride. In this respect the difference between aluminum chloride and ferric chloride is especially pronounced. A study of interaction of alcohols with (Chemistry--Physical, TT, v. 6, no. 9) (over)

61-18168

I. Nazarova, Z. N.
II. Tsukervanik, L. P.

195425

Office of Technical Services

Turova-Polyak, M. B. and Novitskii, K. Yu.
ISOMERIZATION OF POLYMETHYLENE HYDRO-
CARBONS [UNDER THE ACTION] OF ALUMINUM
CHLORIDE. XL ISOMERIZATION OF CYCLO-
OCTANE. [1961] 6p. 9 refs.
Order from OTS or SLA \$1.10

61-18163

Trans. of Zhurnal Obshchey Khimii (USSR) 1944, v. 14,
p. 337-342.

DESCRIPTION: "Hydrocarbons, "Molecular isomerism,
•Cyclooctanes, Cyclohexanes, Aluminum compounds,
Chlorides.

Isomerization of cyclooctane in the presence of aluminum chloride was investigated. Interaction of cyclooctane with aluminum chloride, attended by liberation of heat, was found to bring about complete conversion of cyclooctane into dimethylcyclohexane. Thus, isomerization of an eight-membered naphthenic ring into a six-membered ring was established. (Author) (See also 61-16660)

61-18163

I. Turova-Polyak, M. B.
II. Novitskii, K. Yu.
III. Title: Isomerization of
Cyclooctane

Office of Technical Services
(Chemistry--Organic, TT,
v. 6, no. 7)

Moldavskii, B., Nebylova, E., and Nizovkina, T.
ISOMERIZATION OF HYDROCARBONS. VI. INVESTIGATION OF BY-PRODUCTS FORMED IN ISOMERIZATION OF BUTANES AND PENTANES BY ALUMINUM HALIDES AND THE MECHANISM OF THEIR FORMATION. [1941] pp. 11 refs.
Order from OTS or SLA \$1.10

61-18162

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14,
p. 343-349.

DESCRIPTION: *Hydrocarbons, *Molecular isomerism,
*Butanes, *Pentanes, Aluminum compounds, Chlorides.

Isomerization of butanes and pentanes by aluminum chloride forms hydrocarbon by-products which boil below and above the boiling point of the initial hydrocarbon. The mechanism of formation of these hydrocarbons involves demethylation and methylation of butanes and pentanes by aluminum chloride. In the case (Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18162

I. Moldavskii, B.
II. Nebylova, E.
III. Nizovkina, T.
IV. Title: Investigation ...

131654

Office of Technical Services

Moldavskii, B. and Zharkova, V.
ISOMERIZATION OF HYDROCARBONS. VII. ANALYSIS OF MIXTURES OF ISOMERIC PENTENES [1961]
Sp. 7 refs.

Order from OTS or SLA \$1.10 61-18161

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14,
p. 359-364.

DESCRIPTORS: *Hydrocarbons, *Molecular isomerism,
*Pentenes, Determination.

A method of analysis of mixtures of isomeric pentenes was developed, consisting in distilling off 3-methyl-*i*-butene and determining in the residue the total amount of unsaturated and that of unsaturated with a double bond at a tertiary carbon atom. This method is suitable also to the determination of other olefins, for instance those containing 4, 6 or 7 carbon atoms and possessing a double bond at a tertiary carbon atom. The analytical (Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18161

- I. Moldavskii, B.
II. Zharkova, V.
III. Title: Analysis ...

61-178...

Office of Technical Services

Thermal Analysis of the System NaF-BeF₂. X-Ray Analysis of This System, by A. V. Novoselova, M. E. Levina, 30 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XIV, No 6, 1944, pp 385-402.

28,910

Sci Tr Center
RT-2187

Scientific - Chemistry

Nov 55 CPS/DEX

Gas-Permeability and Microstructure of
Highpolymeric Compounds, by S. A. Reitlinger,
6 p.

RUSSIAN, per, Partial Trans, (p 420-423) of
Zhurnal Obshchey Khimii, 1944, Vol XIV, No 6
pp 420-427.

SLA 62-10848
SLA 59-15848

Sci
Jan 60
Vol 2, No 5

Zavgorodni, S. V.

BORON FLUORIDE AS A CATALYST IN ORGANIC CHEMISTRY. III. VELOCITY OF CONDENSATION OF CYCLOHEXENE WITH CARBOXYLIC ACIDS IN THE PRESENCE OF BORON FLUORIDE IN SOLVENTS. [1961] 3p. 11 refs.

Order from OTS or SLA \$1.10

62-10849

[Condensed] trans. of Zhurnal Obshchey Khimii (USSR) 1944, v. 14, no. 6, p. 428-434.

DESCRIPTORS: *Boron compounds, *Fluorides, Catalysts, *Cyclohexenes, *Carboxylic acids, Condensation, Velocity, Organic solvents.

62-10849

I. Zavgorodni, S. V.
II. Title: Velocity...

(Chemistry--Organic, TT, v. 7, no. 11)

Office of Technical Services

Korshak, V. V. and Kolesnikov, G. S.
MECHANISM OF THE FRIEDEL-CRAFTS REACTION, I. [1961] Sp. 8 refs.
Order from OTS or SLA \$1.10

62-10850

[Condensed] trans. of Zhurnal Obshchel Khimii (USSR)
1944, v. 14, no. 6, p. 435-437.

DESCRIPTORS: *Friedel-Crafts reactions, Chemical
reactions, Benzenes, Ketones.

62-10850
I. Korshak, V. V.
II. Kolesnikov, G. S.

(Chemistry--Organic, TT, v. 7, no. 11)

Office of Technical Services

Petrov, A. D. and Kurbekli, G. P.
SYNTHESIS AND PROPERTIES OF MONOALKYL
NAPHTHALENES C₁₇-C₂₁ AND SOME HYDROGE-
NATED DERIVATIVES OF THEM. [1961] 3p. 8 refs.
Order from OTS or SLA \$1.10

61-18204

Trans. of Zhurnal Obrabotki Khimii (USSR) 1944, v. 14,
p. 492-494.

DESCRIPTORS: *Naphthalenes, Synthesis, Antiknock,
Alkyl radicals, Hydrocarbons.

Synthesis of four alkylated naphthalenes with from 17
to 21 carbon atoms is reported; two of these were
hydrogenated to the corresponding decalin derivatives.
Pour points and antiknock properties of these hydro-
carbons expressed in cetene numbers were determined.
(Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-18204
L Petrov, A. D.
IL Kurbekli, G. P.

Office of Technical Services

Petrov, A. D. and Lapreva, E. I.
SYNTHESIS AND PROPERTIES OF SOME HIGHER
HOMOLOGS OF BENZENE, III. [1961] 3p. 12 refs.
Order from OTS or SLA \$1.10 61-18203

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14,
p. 495-497.

DESCRIPTORS: *Benzenes, Synthesis, Chemical
properties.

Properties of newly synthesized propyloctylphenyl-
methane and dibutylnonylophenylmethane were studied
and blending cetene numbers of methylnonylophenyl-
methane were determined. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-18203

I. Petrov, A. D.
II. Lapreva, E. I.

Office of Technical Services

Petrov, A. D., Shchupina, Z. K., and Ol'dekop,
Yu. A.
SYNTHESIS OF 9, 10-DIMETHYLOCTADECANE AND
9, 10-DIPROPYLOCTADECANE. [1961] 3p. 13 refs.
Order from OTS or SLA \$1.10 61-18202

Trans. of Zhurnal Obshchel Khimii (USSR) 1944,
v. 14, p. 498-500.

DESCRIPTORS: Synthesis, *Propanes, Hydrocarbons,
*Fuel oil, Methyl radicals, Alkyl radicals, Propyl
radicals, *Methanes, Viscosity, Antiknock.

Synthesis of two isoparaffins with 20 and 24 carbon
atoms, respectively, was effected, namely, 9, 10-
dimethyloctadecane and 9, 10-dipropyloctadecane.
These hydrocarbons are characterized by low pour
points, satisfactory antiknock properties and a flat
temperature-viscosity curve. (Author)

(Chemistry--Organic, TT, v. 6, no. 8)

61-18202

I. Petrov, A. D.
II. Shchupina, Z. K.
III. Ol'dekop, Yu. A.

157126

Office of Technical Services

The Study of the Reaction of Sulfonation II. The
Influence of Time and Excess of Sulfonated
Substance Upon the Process of the Reaction, by
A. A. Spryakov, 15 p.

RUSSIAN, per, Zhur Obsh Khim, 1944, Vol XIV,
No 7/8, pp 833-841.

SLA 59-17827

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Vol 2, No 10

108,837

<p>Kuznetsov, V. I. REACTION COLOREE SUR LE THORIUM. I. REACTIFS ORGANIQUES POUR LE THORIUM (Color Reaction of Thorium. I. Organic Reagent for Thorium) tr. by M. Kefeli, Y. 9 May 60 [13]p. 9 refs. CHA Trans. no. R 697 (text in French). Order from OTS or SLA \$1.60 61-23813</p> <p>Trans. in French of Zhurnal Obozreni Khimii (USSR) 1944, v. 14, no. 9/10, p. 914-919. A translation in English available from SLA as RT-2824.</p> <p>DESCRIPTORS: *Thorium, *Reagents, Colors, Chemical reactions, USSR.</p> <p><i>See Thor Lib No 52/32.41</i> <i>Also REC list dated</i> <i>20 Jan 1960</i> <i>(Chemistry--Organic, TT, v. 6, no. 6)</i></p>	<p>61-23813</p> <p>I. Kuznetsov, V. I. II. Title: Reactifs... III. Title: Organic... IV. CBA-tr-R897 V. Commissariat à l'Energie Atomique (France)</p> <p>176694</p> <p>Office of Technical Services</p>	
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Plate, A. F., Sterligov, O. D., and Bazhulin, P. A.
HYDROCARBONS OF THE SERIES OF CYCLOPENTANE WITH A DOUBLE BOND IN THE SIDE CHAIN:
4-CYCLOPENTYL-2-BUTENE AND 3-CYCLOPENTYL-
1-BUTENE. [1961] 6p. 16 refs.
Order from OTS or SLA \$1.10

61-18214

Trans. of Zhurnal Obshchey Khimii (USSR) 1944, v. 14,
p. 955-959.

DESCRIPTORS: *Hydrocarbons, *Cyclopentanes,
*Butenes, Synthesis, Raman spectroscopy.

Interaction of cyclopentylmagnesium chloride with the
product of addition of 1 molecule of hydrogen bromide
to butadiene forms a mixture of unsaturated hydrocar-
bons from which 3-cyclopentyl-1-butene was isolated
in pure state and 4-cyclopentyl-2-butene as a mixture
of its cis and trans isomers. The structure of these
olefins was proved by a study of their Raman spectra.
(Author)
(Chemistry--Organic, TT, v. 6, no. 7)

61-18214

I Plate, A. F.
II Sterligov, O. D.
III Bazhulin, P. A.

Office of Technical Services

The Chemistry of Phosphorous, by Y. I. Mikhailenko,
V. I. Semishin, 6 pr.

RUSSIAN, per, Zhur Obshchei Khim, Vol XIV, 1974,
pp 1025-1029.

SLA R-3028

Sci

Jul 59

92, 354

Action of Haloid-Substituted Ethers on Triethyl
Phosphite and Salts of Diethyl-Phosphorous Acid,
by Abramov, Sergeyeva, Zh. Chelpanova 12 or 14 pp.

Full translation.

RUSSIAN, per, Zhur Obshch Khim, Vol XIV, No 11-12,
1944, pp 1030-1037.

SKA RT-2372 (14 pp)

Def Sci Info Sv, DRB Canada,
T.92.R

Scientific - Chemistry Jul 53 CTS/DEX
CTS 63-00255 (12 pp)

* CIA 1602595

6/14/7

Ushakov, M. I. and Kosheleva, N. F.
PHOTOPOLYMERIZATION OF $\Delta^4,6$ -CHOLESTADIENONE, tr. by Z. D. Knowles, 23 Oct 51, 10p.
4 refs.

Order from OTS or SLA \$1.10 61-28119

Trans. of Zhurnal Obshchey Khimii (USSR) 1944, v. 14,
no. 11/12, p. 1138-1141.

DESCRIPTORS: *Cholestenone, Polymerization, Ultra-violet radiation, Hydrogenation, Hexanes, Cholesterol, Photo-chemistry, Chemistry.

At exposure to ultraviolet light of a solution of $\Delta^4,6$ -cholestadienone in hexane, a dimer-lumicholestadienone is obtained which at heating dissociates, yielding inversely $\Delta^4,6$ -cholestadienone. At catalytic hydrogenation with palladium black lumicholestadienone ($C_{54}H_{84}O$) at the splitting off of water converts into (Chemistry--Organic, TT, v. 7, no. 5) (over)

61-28119

I. Ushakov, M. I.
II. Kosheleva, N. F.
III. National Institutes of
Health, Bethesda, Md.

Office of Technical Services

